



# Human Estradiol,E2 ELISA Kit

<b>Product Code</b>	CSB-E05108h
<b>Abbreviation</b>	E2
<b>Protein Biological Process 1</b>	Sex hormone
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Sample Types</b>	serum, plasma.
<b>Detection Range</b>	50 pg/ml-1200 pg/ml.
<b>Sensitivity</b>	40 pg/ml.
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Signal Transduction
<b>Quality Control</b>	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 600 nm - 630 nm.</p> <p>An incubator that can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p>
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Competitive
<b>Component</b>	<p>A 96-well Assay plate -- The 96-well plate has been pre-coated with goat-anti-rabbit E2 antibody.</p> <p>Standard 6 x 0.5 ml -- Dilute the standard at dilution series, read the OD values, and then draw a standard curve.</p> <p>Anti-mouse E2 Antibody 1 x 6 ml -- Act as the detection antibody.</p> <p>HRP-conjugate 1 x 6 ml -- Bind to the E2 antibody, and HRP catalyzes the substrate A and B to elicit a chromogenic reaction.</p> <p>Wash Buffer (20 x concentrate) 1 x 15 ml -- Wash away unbound or free</p>



substances.

Substrate A 1 x 7 ml -- Mix with substrate B, and the TMB is catalyzed by HRP to develop color.

Substrate B 1 x 7 ml -- Mix with substrate A, and the TMB is catalyzed by HRP to develop color.

Stop Solution 1 x 7 ml -- Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells)

An Instruction manual

## Description

The human Estradiol (E2) ELISA kit is a powerful tool for quantitative measurement of estradiol levels in human serum and plasma samples, with a detection range of 50 pg/ml to 1200 pg/ml and a sensitivity of 40 pg/ml. The assay principle is competitive, meaning that two antibodies competitively bind to the estradiol in the sample. The detection is read at a wavelength of 450 nm. The assay time typically ranges from 1 to 5 hours, requiring a sample volume of 50-100  $\mu$ l. The kit's performance has been validated in multiple studies found in more than 18 publications, ensuring its accuracy and reproducibility in measuring estradiol levels in human samples.